

# Heitor Gouvêa

Information Security Professional

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## SUMMARY

I have been working on projects that help people, organizations and companies take control of their own information. My work is focused on understanding threat models, analyzing existing applications and building intelligent tools to combat risk current and future security for both individuals and groups.

I have audited high profile websites for security vulnerabilities and have managed and worked in teams of software developers and computer scientists delivering high security architectures. I like information security and software development, particularly in the areas of secure protocols and architecture.

I have experience developing in a wide array of programming languages including: Shell Script, JavaScript, Perl and Mojo Framework and have knowledge of telecommunication and internet protocols including, but not limited to TCP/IP, UDP, HTTP, FTP, SSH, SMTP and Telnet.

The largest project I work on is Nipe: a tool to make Tor Network your default gateway. Nipe enables you to directly route all your traffic from your computer to the Tor Network through which you can surf the Internet Anonymously without having to worry about being tracked or traced back. On my profile on GitHub you can see some of my codes written during my researches: <https://github.com/GouveaHeitor>

## EXPERIENCE

### *Independent Security Researcher*

heitorgouvea.me

04/2018 - PRESENT

I work both independently and as part of research teams to explore cyber security vulnerabilities and to develop comprehensive strategies to mitigate risk. I have experience has a hands-on engineer, researcher, and security architect. I already worked with amazing companies of security consulting like: OGASEC, Deloitte Brazil and CIPHER. In the past, I reported some vulnerabilities to the following Brazilian digital banks: Digio, Smart Bank and C6 Bank.

### *Security and Development Analyst*

Horizon Four

11/2017 - 03/2018

I acted providing consulting in the field of information security offensive to institutions, private companies and governmental organizations. My work was focused on writing business proposal models, confidentiality and reports, and understanding threat models, analyzing existing applications and building intelligent tools to combat current and future security risk for both individuals and groups.

### *Information Technology Trainee*

IMA - Computer Associates Municipalities S/A

04/2016 - 11/2017

I participated in the trainee program in order to be trained and prepared to assume strategic positions in the future. During the trainee process I worked directly with clients understanding their problems and later proposing some solutions, developing, performing vulnerability analyzes and maintaining Government Systems that used technologies, like: PHP 7, Symfony Framework, JavaScript, CoffeeScript, Doctrine, MySQL, Twig, Ruby On Rails and others technologies.

## TECHNICAL SKILLS

**Network:** TCP/IP, UDP, HTTP, FTP, SSH, SMTP and Telnet

**Architecture:** Scalability, Distributed system, Decentralized systems, High architecture, Parallel computing and Design patterns

**Front-end:** HTML5, CSS3, MaterializeCSS, Sass, JavaScript and AngularJS

**Back-end:** Shell Script, Perl and Mojo Framework

**Database:** MongoDB, MySQL and PostgreSQL

**Tools:** Bower, Git, Jekyll, Grunt and Docker

**Application Security:** Hardening, Cryptography, Vulnerability analysis, Penetration testing, Secure code review and Red Team Strategies

**Agile Methods:** Scrum and Extreme Programming

**Others:** Web performance, SEO, Responsive Design, Cross-browser, OOP, UML, Progressive Web Apps and Linux Administration

**Advisories:** CVE-2019-15032 and CVE-2019-15033;

## LANGUAGES

**Portuguese:** native proficiency

**English:** limited working proficiency